

CLAIMS

1. A system and method for a plurality of sea going vessels to capture seawater, process the said seawater into a desired condition, store the
5 said processed seawater onboard such said vessels, and sending such vessels to a plurality of locations for the purposes of distributing the processed water
2. A system and method for a plurality of sea going vessels to be designed specifically for the purpose of capturing seawater, processing
10 said seawater into a desired condition, and storing the processed water onboard via suitable storage devices
3. A system and method for a plurality of sea going vessels to be designed for the purposes of capturing seawater, processing said
15 seawater into a desired condition, storing the processed water onboard, and distributing the said processed water to a plurality of geographical locations having suitable or appropriate facilities to allow the said distribution to take place
4. A system and method for a sea going vessel to have routing mechanisms within the vessel to capture seawater from either the
20 vessel water intake valves, also called sea chests, or capturing seawater originally used for vessel engine cooling, about to be discharged, for the purposes of routing the captured seawater into a suitable water processing device to process the said captured seawater into a desired condition
- 25 5. A method and apparatus for a routing device to be fitted at a suitable location within any sea going vessel in order to capture seawater used for vessel engine cooling, to be discharged if said device is not fitted, for the purposes of capturing and routing said seawater to a water processing facility onboard the said vessel
- 30 6. A method and apparatus for a routing device to be fitted or be connected to a seawater engine cooling discharge outlet, for the purposes of capturing the said seawater discharge, processing the said discharge into a desired condition, and subsequently storing the processed water onboard via suitable storage devices

- 5 7. A system and method for a sea going main vessel to capture seawater, process the said seawater into a desired condition, store the said processed seawater onboard the said main vessel, allow a plurality of smaller vessels to further distribute the said processed seawater from the main vessel to a plurality of locations or a single destination
- 10 8. A system and method for a sea going vessel to be equipped with suitable seawater processing facility or plant, coupled with suitable storage tanks onboard, for the purposes of desalinating seawater into a desired condition, storing the processed water into the said tanks, and distributing the said processed water to a plurality of markets which may be in geographically separate locations
- 15 9. A system and method for a sea going vessel to be designed to capture seawater from either its existing seawater intake valves or sea chests, or from its vessel engine's seawater cooling discharge outlet, or a combination thereof, for the purposes of using the said captured seawater in a water processing device to process the said seawater into processed water of a desired condition, and storing the said processed water onto storage tanks onboard the said vessel, for eventual distribution to a plurality of markets
- 20 10. A method and apparatus for a seawater desalination system to be housed in standard cargo containers, for mounting of the said container onto a sea going vessel, for the purposes of making use of captured seawater from the said vessel to the said desalination system
- 25 11. A method and apparatus as claimed in claim 10, where additional cargo containers are adapted to store processed water that is output from the seawater desalination system
- 30 12. A method and apparatus as claimed in claims 10-11, where specially adapted cargo containers can receive processed water from a seawater desalination system, and be mounted onboard a sea going vessel, and be subsequently dismounted from the said vessel to a inland container loading/unloading facility
13. A method and apparatus as claimed in claim 12, where said cargo containers can be immediately be removed from the said vessel upon

receiving a designated amount of processed water from the said vessel mounted seawater desalination system

14. A system and method for capturing seawater from a sea-going vessel, allowing the said seawater to be routed to a seawater desalination unit that is constructed and housed within a standard 20 or 40 foot cargo container, allowing the said desalination unit to process the said seawater to a desired specification, sending the processed water to one or more 20 or 40 foot cargo container that is capable of storing the said liquid for loading and unloading to and from the said vessel to any inland cargo container loading and unloading facility
15. A system and method for a sea going vessel to be constructed and equipped with an auxiliary powerplant to specifically capture, route and process seawater into processed water of a desired condition, then storing the said processed water on-board via suitable storage facilities for the purpose of distributing the said processed water to a plurality of distribution points/locations
16. A system and method as claimed in claim 14, including allowing either the main powerplant of a sea going vessel, the auxiliary powerplant, or a combination thereof, to specifically capture, route, and process seawater into processed water of a desired condition, then storing the said processed water on-board via suitable storage facilities for the purpose of distributing the said processed water to a plurality of distribution points/locations
17. A system and method for a sea-going vessel to be constructed and equipped with a solar-panel assembly, auxiliary powerplant unit, water desalination system, and water storage units, for the purposes of capturing seawater for processing and subsequent distribution to the plurality of locations, comprising of the following steps;
- Converting solar energy gathered by the solar panel assembly on-board the said vessel into electrical energy;
- Charging said electrical energy into the auxiliary powerplant unit;

Capturing seawater using the vessel's sea chests, or vessel's engine seawater cooling outlet, or a combination thereof;

Sending the captured seawater to the vessel's desalination system;

5 Driving the operation of the desalination system using the charged energy from the said powerplant unit;

Storing the processed water from the said system to the vessel's water storage units;

Distributing the said processed water to a plurality of inland facilities equipped to allow the said vessel's design purpose

10 18. A method and apparatus for a sea-going vessel to be utilized for the purposes of collecting seawater comprising of the following steps;

Collecting seawater from the vessel's seawater intake valves, also called sea chests;

15 Collecting seawater from the outlet of the seawater engine cooling unit of the said vessel;

Collecting seawater from either the vessel's sea chest or the vessel's engine cooling unit seawater outlet, or a combination thereof;

Sending the said seawater to a on-board seawater desalination and/or de-salting system;

20 Storing the processed water from the said desalination and/or de-salting system to a series of water storage tanks onboard the said vessel;

Distributing the said stored water to a plurality of locations

25 19. A method and apparatus for a sea-going vessel to be constructed with additional sea chests for capturing seawater during the vessel's motion/propulsion, for the purposes of processing the said captured seawater comprising of the following steps;

Capturing seawater during the vessel's motion/propulsion;

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- Sending said seawater to an on-board seawater desalination system or the like;
- Processing said seawater by the said system to a desired specification;
- Sending the processed water to on-board storage tanks;
- 5 Distributing the said water to a plurality of locations by suitable means between the said vessel and an inland facility